SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

COCONUT & PEACH

Version	Revision Date:	Date of last issue: -
1.0	23.04.2022	Date of first issue: 23.04.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : COCONUT & PEACH

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Fragrance mix

1.3 Details of the supplier of the safety data sheet

Candle Supply Pty Ltd
Unit 3 8-9 Lagana Place
Wetherill Park, NSW 2164
ABN: 70612899626

Phone Number: 02 8741 4000
e-mail: customerservice@candlesupply.com.au

1.4 Emergency telephone number

13 11 26

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Signal word	:	Warning
Hazard statements	:	H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	:	**Prevention:** P261 Avoid breathing mist or vapours. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves. **Response:** P302 + P352 IF ON SKIN: Wash with plenty of water. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

Hazardous components which must be listed on the label:

Coumarin
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool
Neryl acetate
(R)-p-mentha-1,8-diene; d-limonene
2-Benzylideneheptanal
2-Methoxy-4-propylphenol
Geranyl acetate
7-Hydroxycitronellal
Linalyl acetate
2-(4-tert-Butylbenzyl)propionaldehyde
1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)hepta-1,6-dien-3-one
1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No.	Classification	Concentration (% w/w)

	Registration number		
benzyl benzoate	120-51-4 204-402-9 607-085-00-9	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 --- Acute toxicity estimate Acute dermal toxicity: 4.000 mg/kg	>= 2,5 - < 10
Coumarin	91-64-5 202-086-7 01-2119949300-45 01-2119943756-26 01-2119949300-45 01-2119949300-45	Acute Tox. 4; H302 Skin Sens. 1B; H317 Aquatic Chronic 3; H412 --- Acute toxicity estimate Acute oral toxicity: 500 mg/kg	>= 2,5 - < 10
α,α-Dimethylphenethyl butyrate	10094-34-5 233-221-8 01-2120742578-44 01-2120742578-44 01-2120742578-44	Skin Irrit. 2; H315 Aquatic Chronic 3; H412	>= 1 - < 2,5
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	78-70-6 201-134-4 603-235-00-2	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 0,1 - < 1
Neryl acetate	141-12-8 205-459-2 01-2120748334-54 01-2120748334-54 01-2120748334-54	Skin Sens. 1B; H317	>= 0,1 - < 1
(R)-p-mentha-1,8-diene; d-limonene	5989-27-5 227-813-5	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317	>= 0,25 - < 1

	601-029-00-7	Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide;(HHCB)	1222-05-5 214-946-9 603-212-00-7 01-2119488227-29 01-2119488227-29	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 0,25 - < 1
2-Benzylideneheptanal	122-40-7 204-541-5	Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 0,25 - < 1
2-Methoxy-4-propylphenol	2785-87-7 220-499-0 01-2120223684-57	Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1B; H317 STOT SE 3; H335 (Respiratory system)	>= 0,1 - < 1
Geranyl acetate	105-87-3 203-341-5	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 0,1 - < 0,25
7-Hydroxycitronellal	107-75-5 203-518-7 01-2119973482-31	Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 0,1 - < 1
Linalyl acetate	115-95-7 204-116-4	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 0,1 - < 1
2-(4-tert-Butylbenzyl)propionaldehyde	80-54-6 201-289-8	Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Repr. 1B; H360Fd Aquatic Chronic 3; H412 Acute toxicity esti-mate	>= 0,1 - < 0,25

		Acute oral toxicity: 1.390 mg/kg	
1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)hepta-1,6-dien-3-one	79-78-7 201-225-9	Skin Sens. 1B; H317 Aquatic Chronic 2; H411	>= 0,1 - < 0,25
1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	57378-68-4 260-709-8	Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 0,025 - < 0,1
Substances with a workplace exposure limit :			
ethyl acetate	141-78-6 205-500-4 607-022-00-5 01-2119475103-46 01-2119475103-46	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system)	>= 0,1 - < 1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing

If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.
Keep patient warm and at rest.
If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.

In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Rinse mouth with water. Keep respiratory tract clear. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Risks	:	May cause an allergic skin reaction. First aider needs to protect himself.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	:	The first aid procedure should be established in consultation with the doctor responsible for industrial medicine. There is no specific antidote available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	:	High volume water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products	:	No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.
Further information	:	In the event of fire and/or explosion do not breathe fumes. Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Evacuate personnel to safe areas.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

Advice on common storage : No special restrictions on storage with other products.

Storage class (TRGS 510) : 10, Combustible liquids

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Fragrance mix

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
(R)-p-mentha-1,8-diene; d-limonene	5989-27-5	MAK	5 ppm 28 mg/m3	DFG
		AGW	5 ppm 28 mg/m3	DE TRGS 900
ethyl acetate	141-78-6	MAK	200 ppm 750 mg/m3	DFG
		TWA	200 ppm 734 mg/m3	91/322/EEC
		STEL	400 ppm 1.468 mg/m3	91/322/EEC
		STEL	400 ppm 1.468 mg/m3	EU SCOEL
		TWA	200 ppm 734 mg/m3	EU SCOEL
		AGW	200 ppm 730 mg/m3	DE TRGS 900

8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles

Hand protection

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use. Wear chemicals-resistant gloves, e.g. safety gloves of nitril (thickness 0.4mm) or of butyl rubber (thickness 0.7mm).

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Not required; except in case of aerosol formation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	light yellow to orange-brown
Odour	:	characteristic
Odour Threshold	:	No data available
Melting point/freezing point	:	not determined
Boiling point/boiling range	:	not determined
Upper explosion limit / Upper flammability limit	:	Vapours may form explosive mixtures with air.
Lower explosion limit / Lower flammability limit	:	Vapours may form explosive mixtures with air.
Flash point	:	> 100 °C
Decomposition temperature	:	not determined
pH	:	not determined
Viscosity		
Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	not determined
Partition coefficient: n-octanol/water	:	Not applicable
Vapour pressure	:	< 1 kPa (50 °C) calculated
Relative density	:	0,9436 - 0,9636 (20 °C) relation to density of water at 20°C
Bulk density	:	Not applicable
Relative vapour density	:	not determined

9.2 Other information

Explosives	:	Due to its structural properties, the product is not classified as explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Self-ignition	:	The substance or mixture is not classified as self heating.
Evaporation rate	:	Not applicable
Molecular weight	:	Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	No decomposition if stored and applied as directed. Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid	:	No data available

10.5 Incompatible materials

Materials to avoid	:	No data available

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method

Components:

benzyl benzoate:

Acute oral toxicity	:	LD50 Oral (Rat): 1.500 mg/kg

Acute dermal toxicity : Acute toxicity estimate: 4.000 mg/kg

Coumarin:

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg

α,α-Dimethylphenethyl butyrate:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:

Acute oral toxicity : LD50 (Rat, male and female): 2.790 mg/kg
Method: OECD Test Guideline 401
GLP: no
Remarks: Weight of Evidence

Acute dermal toxicity : LD50 (Rabbit): 5.610 mg/kg
Method: OECD Test Guideline 402
GLP: no

Neryl acetate:

Acute oral toxicity : LD50 Oral (Rat, female): > 2.000 mg/kg
Method: OECD 423
GLP: yes

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg
GLP: no

(R)-p-mentha-1,8-diene; d-limonene:

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg
Remarks: Information given is based on data obtained from similar substances.

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide;(HHCB):

Acute oral toxicity : LD50 Oral (Rat, female): > 3.000 mg/kg
Method: OECD Test Guideline 401
GLP: No information available.

Acute dermal toxicity : LD50 Dermal (Rat, female): > 6.500 mg/kg
Method: OECD Test Guideline 402
GLP: No information available.

2-Benzylideneheptanal:

Acute oral toxicity : LD50 Oral (Rat): 3.730 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg

2-Methoxy-4-propylphenol:

Acute oral toxicity : LD50 Oral (Rat): 2.600 mg/kg

Geranyl acetate:

Acute oral toxicity : LD50 Oral (Rat, male and female): 6.330 mg/kg
GLP: no

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.460 mg/kg
GLP: no

7-Hydroxycitronellal:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

Linalyl acetate:

Acute oral toxicity : LD50 (Rat, male and female): > 9.000 mg/kg
GLP: no

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg
GLP: no

2-(4-tert-Butylbenzyl)propionaldehyde:

Acute oral toxicity : LD50 Oral (Rat, male and female): 1.390 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute toxicity estimate: 1.390 mg/kg
Method: Calculation method

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg

LD50 Dermal (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: no

1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)hepta-1,6-dien-3-one:

Acute oral toxicity : LD50 (Rat): > 30.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one:

Acute oral toxicity : LD50 Oral (Mouse, male and female): 1.400 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg
Method: OECD Test Guideline 402

ethyl acetate:

Acute inhalation toxicity	:	LC50 (Rat, male and female): > 6000 ppm Exposure time: 6 h Test atmosphere: vapour GLP: yes
Acute dermal toxicity	:	LD50 Dermal (Rabbit, male): > 20.000 mg/kg GLP: no

Skin corrosion/irritation

Not classified based on available information.

Components:

benzyl benzoate:

Species	:	Rabbit
Exposure time	:	4 h
Method	:	OECD Test Guideline 404
Result	:	Mild skin irritation
GLP	:	yes
Dose	:	0,5 ml
Concentration	:	100 %

Coumarin:

Species	:	Rabbit
Method	:	Regulation (EC) No. 440/2008, Annex, B.4
Result	:	No skin irritation
GLP	:	yes

α,α-Dimethylphenethyl butyrate:

Species	:	Rabbit
Exposure time	:	24 h
Result	:	Skin irritation
Concentration	:	100 %

Species	:	Humans
Exposure time	:	48 h
Method	:	Closed patch test
Result	:	No skin irritation
Concentration	:	10 %
solvents	:	Petrolatum

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:

Species	:	Rabbit
Exposure time	:	4 h
Method	:	OECD Test Guideline 404
Result	:	Skin irritation
GLP	:	yes
Concentration	:	100 %

Neryl acetate:

Species	:	Rabbit

Result	:	No skin irritation
GLP	:	no
Concentration	:	100 %

2-Benzylideneheptanal:

Species	:	Humans
Result	:	No skin irritation
Concentration	:	32 %

7-Hydroxycitronellal:

Species	:	Humans
Result	:	No skin irritation
Concentration	:	5 %

Linalyl acetate:

Species	:	Rabbit
Exposure time	:	4 h
Method	:	OECD Test Guideline 404
Result	:	Skin irritation
GLP	:	No information available.
Concentration	:	100 %

2-(4-tert-Butylbenzyl)propionaldehyde:

Species	:	Humans
Exposure time	:	24 h
Method	:	HRIPT
Result	:	No skin irritation
Concentration	:	5 %
solvents	:	Petrolatum

Species	:	Rabbit
Exposure time	:	4 h
Method	:	OECD Test Guideline 404
Result	:	Skin irritation
GLP	:	yes
Dose	:	0,5 ml
Concentration	:	100 %

1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)hepta-1,6-dien-3-one:

Species	:	Humans
Exposure time	:	48 h
Method	:	Closed patch test
Result	:	No skin irritation
Concentration	:	10 %
solvents	:	Petrolatum

1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one:

Species	:	reconstructed human epidermis (RhE)
Exposure time	:	15 min

Method	:	Tested according to Annex V of Directive 67/548/EEC.
Result	:	Skin irritation
GLP	:	yes
Dose	:	10 yl
Concentration	:	100 %

Serious eye damage/eye irritation

Not classified based on available information.

Components:

benzyl benzoate:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Mild eye irritation
GLP	:	yes
Dose	:	0,1 ML
Concentration	:	100 %

Coumarin:

Species	:	Rabbit
Exposure time	:	96 h
Result	:	No eye irritation
GLP	:	yes
Dose	:	50 MG
Concentration	:	100 %

α,α-Dimethylphenethyl butyrate:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Mild eye irritation
GLP	:	yes

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Irritating to eyes.
GLP	:	no
Concentration	:	100 %
Remarks	:	Weight of Evidence

Neryl acetate:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Mild eye irritation
GLP	:	yes
Dose	:	0,1 ML
Concentration	:	100 %

Species	:	Human
Method	:	OECD Test Guideline 492

Result	:	No eye irritation
GLP	:	yes
Dose	:	0,05 ML
Concentration	:	100 %

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide;(HHCB):

Species	:	Rabbit
Result	:	No eye irritation
Concentration	:	4 %
solvents	:	Ethyl alcohol

Species	:	Rabbit
Exposure time	:	7 d
Method	:	OECD Test Guideline 405
Result	:	No eye irritation
GLP	:	yes
Dose	:	0,1 ML
Concentration	:	100 %

2-Benzylideneheptanal:

Species	:	Rabbit
Result	:	No eye irritation
Dose	:	0,1 ML

2-Methoxy-4-propylphenol:

Species	:	Cattle
Method	:	OECD Test Guideline 437
Result	:	Eye irritation
GLP	:	yes
Concentration	:	71,8 %

Geranyl acetate:

Species	:	Rabbit
Exposure time	:	24 h
Method	:	OECD Test Guideline 405
Result	:	Mild eye irritation
GLP	:	yes
Dose	:	0,1 ML
Concentration	:	100 %

7-Hydroxycitronellal:

Remarks	:	Irritating to eyes.

Linalyl acetate:

Species	:	Rabbit
Result	:	Eye irritation
GLP	:	no
Concentration	:	100 %

2-(4-tert-Butylbenzyl)propionaldehyde:

Species	:	Rabbit
Result	:	No eye irritation
GLP	:	no
Dose	:	0,1 ML
Concentration	:	100 %

1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one:

Species	:	Rabbit
Result	:	No eye irritation
Concentration	:	1 %
solvents	:	Propylene glycol

Species	:	hen' s egg
Exposure time	:	0,6 min
Method	:	OECD Test Guideline 438
Result	:	No eye irritation
GLP	:	yes
Dose	:	30 YL
Concentration	:	100 %

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

benzyl benzoate:

Test Type	:	Local Lymph Node Assay
Species	:	Mouse
Method	:	OECD 429
Result	:	No sensitizing effect.
GLP	:	yes
Concentration	:	50 %
solvents	:	Diethylphthalate/Ethyl alcohol (3:1)

Coumarin:

Test Type	:	Local Lymph Node Assay
Species	:	Mouse
Method	:	OECD 429
Result	:	Sensitizing effect.
GLP	:	No information available.
Concentration	:	2,4 - 3,7 %

α,α-Dimethylphenethyl butyrate:

Test Type	:	Maximisation Test
Species	:	Humans
Result	:	No sensitizing effect.

Concentration	:	10 %
solvents	:	Petrolatum

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:

Test Type	:	Local Lymph Node Assay
Species	:	Mouse
Method	:	OECD 429
Result	:	Sensitizing effect.
GLP	:	yes
Concentration	:	35,5 %
solvents	:	N,N-Dimethylformamide

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide;(HHCB):

Species	:	Humans
Result	:	No sensitizing effect.
Rate of positive effects	:	0/19
Concentration	:	15 %
solvents	:	Petrolatum

2-Benzylideneheptanal:

Species	:	Humans
Result	:	No sensitizing effect.
Concentration	:	6 %

Species	:	Guinea pig
Result	:	Sensitizing effect.
Concentration	:	10 %

Test Type	:	Local Lymph Node Assay
Species	:	Mouse
Result	:	Sensitizing effect.

Geranyl acetate:

Test Type	:	Local Lymph Node Assay
Species	:	Mouse
Method	:	OECD 429
Result	:	Sensitizing effect.
GLP	:	yes
Concentration	:	100 %

1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)hepta-1,6-dien-3-one:

Test Type	:	Maximisation Test
Species	:	Humans
Result	:	No sensitizing effect.
Concentration	:	10 %
solvents	:	Petrolatum

ethyl acetate:

Test Type	:	Maximisation Test

Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	No sensitizing effect.
GLP	:	no

Germ cell mutagenicity

Not classified based on available information.

Components:

Coumarin:

Genotoxicity in vitro	:	Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD 471 Result: negative GLP: No information available. Test Type: In vitro Mammalian Chromosome Aberration Test Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD 473 Result: Positive results were obtained in some in vitro tests. GLP: No information available. Test Type: In vitro Mammalian Cell Gene Mutation Test Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD 476 Result: negative GLP: No information available. Test Type: sister chromatid exchange assay Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 479 Result: negative GLP: No information available.
Genotoxicity in vivo	:	Test Type: Mammalian Erythrocyte Micronucleus Test Species: Mouse (male and female) Cell type: Bone marrow Application Route: Oral Method: OECD Test Guideline 474 Result: negative GLP: No information available.

α,α-Dimethylphenethyl butyrate:

Genotoxicity in vitro	:	Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD 471 Result: negative GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes

Test Type: In Vitro Mammalian Cell Micronucleus Test
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD 487
Result: negative
GLP: yes

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD 473
Result: negative
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: mouse lymphoma L5178Y cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes

Neryl acetate:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide;(HHCB):

Genotoxicity in vitro : Test Type: Ames test

Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD 473
Result: negative
GLP: yes

Test Type: unscheduled DNA synthesis assay
Test system: rat hepatocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 482
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male and female)
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: negative
GLP: yes

2-Benzylideneheptanal:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Geranyl acetate:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

7-Hydroxycitronellal:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Genotoxicity in vivo : Test Type: Micro nucleus test
Species: Mouse
Result: negative

Linalyl acetate:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: mouse lymphoma L5178Y cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male and female)
Strain: CD1
Cell type: Bone marrow
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes

2-(4-tert-Butylbenzyl)propionaldehyde:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test
Test system: V79 cells
Metabolic activation: with and without metabolic activation
Method: OECD 476
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male and female)
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: negative
GLP: yes

1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one:

Genotoxicity in vitro : Test Type: reverse mutation assay
Test system: Escherichia coli
Metabolic activation: with and without metabolic activation
Result: negative

Test Type: In vitro Mammalian Chromosome Aberration Test
Test system: Human lymphocytes

Method: OECD 473
Result: positive
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test
Test system: Human lymphocytes
Method: OECD 473
Result: negative
GLP: yes

Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: yes

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Mouse (male)
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes

ethyl acetate:

Genotoxicity in vitro : Test Type: In vitro Mammalian Chromosome Aberration Test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD 473
Result: negative
GLP: No information available.

Test Type: In vitro Mammalian Cell Gene Mutation Test
Metabolic activation: with and without metabolic activation
Method: OECD 471
Result: negative
GLP: No information available.

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test
Species: Chinese hamster (male and female)
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: No information available.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Neryl acetate:

Species	:	Rat, male and female
NOAEL	:	440 mg/kg
Application Route	:	Oral
Number of exposures	:	daily
Method	:	OECD 422
GLP	:	yes

Linalyl acetate:

Species	:	Rat, male and female
NOAEL	:	160 mg/kg
Application Route	:	Oral
Exposure time	:	28 d
Number of exposures	:	daily
Method	:	OECD Test Guideline 407
GLP	:	yes

Species	:	Rat, male and female
NOAEL	:	250 mg/kg
Application Route	:	Dermal
Exposure time	:	91 d
Number of exposures	:	daily
Method	:	OECD Test Guideline 411
GLP	:	yes

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Components:

ethyl acetate:

Remarks	:	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Concentrations substantially above the TLV value may cause narcotic effects.
Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Components:

benzyl benzoate:

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 2,32 mg/l End point: mortality Exposure time: 96 h Test Type: semi-static test Method: Directive 67/548/EEC, Annex V, C.1. GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 3,09 mg/l End point: Immobilization Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 0,475 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes NOEC (Pseudokirchneriella subcapitata (green algae)): 0,247 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
Toxicity to microorganisms	:	EC50 (Activated sludge): > 10.000 mg/l End point: Respiration inhibition Exposure time: 3 h Test Type: static test Method: OECD 209 / ISO 8192 GLP: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0,258 mg/l End point: Reproduction rate Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: semi-static test

Method: OECD 211
GLP: yes

Coumarin:

Toxicity to microorganisms : IC50 (Activated sludge): 640 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Method: ISO 8192
GLP: No information available.

α,α-Dimethylphenethyl butyrate:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 2,7 mg/l
End point: mortality
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 2 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: Directive 67/548/EEC, Annex V, C.2.
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 1,9 mg/l
End point: Growth rate
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

EC10 (Pseudokirchneriella subcapitata (green algae)): 0,19 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 27,8 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 59 mg/l End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 156,7 mg/l End point: Growth rate Exposure time: 96 h Test Type: static test Analytical monitoring: no Method: DIN 38412 (part 9) GLP: no EC10 (Desmodesmus subspicatus (green algae)): 54,3 mg/l End point: Growth rate Exposure time: 96 h Test Type: static test Analytical monitoring: no Method: DIN 38412 (part 9) GLP: no
Toxicity to microorganisms	:	EC50 (Activated sludge): > 100 mg/l End point: Respiration inhibition Exposure time: 3 h Test Type: static test Analytical monitoring: yes Method: OECD 209 GLP: yes

Neryl acetate:

Toxicity to daphnia and other aquatic invertebrates	:	(Daphnia magna Straus): 9,06 mg/l End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes
Toxicity to microorganisms	:	(Activated sludge): >= 1.000 mg/l End point: Respiration inhibition Exposure time: 3 h Analytical monitoring: no Method: OECD 209 GLP: yes

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide;(HHCB):

COCONUT & PEACH

Toxicity to fish	:	NOEC (Lepomis macrochirus): 0,0925 mg/l End point: mortality Exposure time: 21 d Test Type: flow-through test

Analytical monitoring: yes
Method: OECD 204
GLP: yes

LC50 (Lepomis macrochirus): 1,36 mg/l
End point: mortality
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD 204
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 0,9 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 0,854 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,201 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (Activated sludge): 10.000 mg/l
Method: OECD 209 / ISO 8192 - 1986 (E)
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,111 mg/l
End point: Reproduction rate
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD 211
GLP: yes

M-Factor (Chronic aquatic toxicity) : 1

2-Benzylideneheptanal:

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 3 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna): 1,1 mg/l Exposure time: 48 h Test Type: static test Method: Directive 67/548/EEC, Annex V, C.2. GLP: yes
Toxicity to algae/aquatic plants	:	EC50 : 1,89 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	EC50 (Activated sludge): > 10.000 mg/l Method: OECD 209 / ISO 8192 - 1986 (E) GLP: yes

Geranyl acetate:

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna Straus): 14,1 mg/l End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes Method: Directive 67/548/EEC, Annex V, C.2. GLP: yes
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 3,72 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes NOEC (Desmodesmus subspicatus (green algae)): 0,585 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes
Toxicity to microorganisms	:	EC20 (Activated sludge): ca. 800 mg/l End point: Respiration inhibition Exposure time: 0,5 h Test Type: static test Analytical monitoring: no Method: ISO 8192 GLP: no

7-Hydroxycitronellal:

COCONUT & PEACH

Toxicity to fish	:	LC50 (Golden orfe (Leuciscus idus)): 22 - 46 mg/l Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna): 410 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 68 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	EC10 (Pseudomonas putida): 625 mg/l Exposure time: 17 h

Linalyl acetate:

Toxicity to fish	:	LC50 (Cyprinus carpio (Carp)): 11 mg/l End point: mortality Exposure time: 96 h Test Type: flow-through test Analytical monitoring: yes Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 59 mg/l End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	:	EC10 (Desmodesmus subspicatus (green algae)): 54,3 mg/l End point: Growth rate Exposure time: 96 h Test Type: static test Analytical monitoring: no Method: DIN 38412 (part 9) GLP: no EC50 (Desmodesmus subspicatus (green algae)): 156,7 mg/l End point: Growth rate Exposure time: 96 h Test Type: static test Analytical monitoring: no Method: DIN 38412 (part 9) GLP: no
Toxicity to microorganisms	:	EC20 (Activated sludge): > 1.000 mg/l End point: Respiration inhibition Exposure time: 0,5 h Test Type: static test Analytical monitoring: no Method: ISO 8192 GLP: no

2-(4-tert-Butylbenzyl)propionaldehyde:

COCONUT & PEACH

Toxicity to fish : LC50 (Zebrafish (Brachydanio rerio)): 2,04 mg/l

End point: mortality
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 10,7 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: no
Method: 79/831/ECC
GLP: no

Toxicity to algae/aquatic plants : EC10 (scenedesmus subspica): 1,696 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 (part 9)
GLP: no

EC50 (scenedesmus subspica): 29,16 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: DIN 38412 (part 9)
GLP: no

Toxicity to microorganisms : EC10 (Activated sludge): > 100 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Analytical monitoring: no
Method: OECD 209
GLP: no

Toxicity to fish (Chronic toxicity) : NOEC: > 0,2 mg/l
Exposure time: 21 d
Species: Pimephales promelas (fathead minnow)
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD 229
GLP: yes

1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one:

Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): 0,977 mg/l
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 203

GLP: yes

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 4,54 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,883 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (Activated sludge): 241 mg/l
Exposure time: 3 h
Test Type: static test
Analytical monitoring: yes
Method: OECD 209
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,35 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Analytical monitoring: no
Method: OECD 211
GLP: yes

M-Factor (Chronic aquatic toxicity) : 1

ethyl acetate:

Toxicity to fish : LC0 (Pimephales promelas (fathead minnow)): 230 mg/l
End point: mortality
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: yes
GLP: No information available.

Toxicity to algae/aquatic plants : NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 201
GLP: yes

Toxicity to microorganisms : EC0 (Pseudomonas putida): 650 mg/l

12.2 Persistence and degradability

Components:

benzyl benzoate:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 94,4 %
Exposure time: 28 d
Method: OECD 301
GLP: yes

Coumarin:

Biodegradability : Test Type: Manometric respiration test
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 90 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

α,α-Dimethylphenethyl butyrate:

Biodegradability : Test Type: Closed Bottle test
Result: Readily biodegradable.
Biodegradation: 83 %
Exposure time: 28 d
Method: OECD 301D
GLP: yes

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:

Biodegradability : Test Type: Closed Bottle test
Result: Readily biodegradable.
Biodegradation: 64,2 %
Exposure time: 28 d
Method: OECD 301D
GLP: yes

Neryl acetate:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 82 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

(R)-p-mentha-1,8-diene; d-limonene:

Biodegradability : Test Type: CO2 Evolution Test
Result: Readily biodegradable.

Biodegradation: 71 %
Exposure time: 28 d
Method: OECD 301B
GLP: yes

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide;(HHCB):

Biodegradability : Test Type: CO2 Evolution Test
Result: Not readily biodegradable.
Biodegradation: 2 %
Exposure time: 28 d
Method: OECD 301B
GLP: No information available.

2-Benzylideneheptanal:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 90 %
Exposure time: 28 d
Method: OECD 301F

2-Methoxy-4-propylphenol:

Biodegradability : Test Type: Sturm test, OECD 301-B, (CO2):
Result: Readily biodegradable.
Biodegradation: > 60 %
Exposure time: 28 d
Method: OECD 301B

Geranyl acetate:

Biodegradability : Test Type: Closed Bottle test
Result: Readily biodegradable.
Biodegradation: 91 %
Exposure time: 28 d
Method: OECD 301D
GLP: yes

7-Hydroxycitronellal:

Biodegradability : Test Type: Sturm test, OECD 301-B, (CO2):
Result: Readily biodegradable.
Biodegradation: 93,7 %
Exposure time: 28 d
Method: OECD 301B
GLP: yes

Linalyl acetate:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 76 %
Exposure time: 28 d
Method: OECD 301F

GLP: no

2-(4-tert-Butylbenzyl)propionaldehyde:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 84 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

Test Type: CO2 Evolution Test
Result: Readily biodegradable.
Biodegradation: 80,7 %
Exposure time: 28 d
Method: OECD 301B
GLP: yes

1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)hepta-1,6-dien-3-one:

Biodegradability : Test Type: Manometric respiration test
Result: Readily biodegradable.
Biodegradation: 66 %
Exposure time: 28 d
Method: OECD 301F
GLP: yes

1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one:

Biodegradability : Test Type: MITI Test II
Result: Not readily biodegradable.
Biodegradation: 0 %
Exposure time: 31 d
Method: OECD 302C
GLP: yes

Test Type: aerobic
Inoculum: activated sludge
Concentration: 100 mg/l
Result: Not readily biodegradable.
Biodegradation: 16 %
Exposure time: 28 d
Method: OECD 301C
GLP: yes

ethyl acetate:

Biodegradability : Test Type: Sturm test, OECD 301-B, (CO2):
Result: Readily biodegradable.
Biodegradation: 93,9 %
Exposure time: 28 d
Method: OECD 301B

12.3 Bioaccumulative potential

Components:

benzyl benzoate:

Partition coefficient: n-octanol/water : log Pow: ca. 3,97 (25 °C)

Coumarin:

Partition coefficient: n-octanol/water : log Pow: 1,39

α,α-Dimethylphenethyl butyrate:

Bioaccumulation : Bioconcentration factor (BCF): < 500

Partition coefficient: n-octanol/water : log Pow: ca. 4,7 (25 °C)
Method: OECD Test Guideline 117
GLP: no

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:

Partition coefficient: n-octanol/water : log Pow: 2,84 (25 °C)
Method: OECD Test Guideline 107
GLP: no

Neryl acetate:

Partition coefficient: n-octanol/water : log Pow: 3,98 (37 °C)
pH: 7,2
Method: OECD 117
GLP: no

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide;(HHCB):

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Exposure time: 28 d
Bioconcentration factor (BCF): 1.584
Method: OECD Test Guideline 305
GLP: yes

Partition coefficient: n-octanol/water : log Pow: 5,3 (25 °C)
pH: 7

2-Benzylideneheptanal:

Partition coefficient: n-octanol/water : log Pow: 4,7

2-Methoxy-4-propylphenol:

Partition coefficient: n-octanol/water : log Pow: 2,87
Remarks: calculated

Geranyl acetate:

Partition coefficient: n-octanol/water	:	log Pow: 4,04 Method: OECD 117 GLP: No information available.

7-Hydroxycitronellal:

Partition coefficient: n-octanol/water	:	log Pow: 1,5 Method: OECD Test Guideline 107

Linalyl acetate:

Partition coefficient: n-octanol/water	:	log Pow: 3,9 (25 °C) Method: OECD Test Guideline 107 GLP: yes

2-(4-tert-Butylbenzyl)propionaldehyde:

Partition coefficient: n-octanol/water	:	log Pow: 4,2 (24 °C) Method: OECD 117

1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)hepta-1,6-dien-3-one:

Partition coefficient: n-octanol/water	:	log Pow: 5,4 Method: OECD Test Guideline 117

1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one:

Bioaccumulation	:	Species: Cyprinus carpio (Carp) Exposure time: 60 d Temperature: 25 °C Bioconcentration factor (BCF): 58,3 Method: OECD Test Guideline 305 GLP: yes
Partition coefficient: n-octanol/water	:	log Pow: 4,2

ethyl acetate:

Partition coefficient: n-octanol/water	:	log Pow: 0,68 (25 °C) pH: 7 Method: OPPTS 830.7560 GLP: no

12.4 Mobility in soil

Components:

benzyl benzoate:

Distribution among environmental compartments	:	Adsorption/Soil Koc: 6310, log Koc: 3,8 Method: OECD 121

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide;(HHCB):

Distribution among environmental compartments	:	log Koc: 4,87 Method: OECD Test Guideline 106

12.5 Results of PBT and vPvB assessment

Product:

Assessment	:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information	:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

Components:

Coumarin:

Additional ecological information	:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

α,α-Dimethylphenethyl butyrate:

Additional ecological information	:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

Neryl acetate:

Additional ecological information	:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide;(HHCB):

Additional ecological information	:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

2-Methoxy-4-propylphenol:

Additional ecological information	:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

7-Hydroxycitronellal:

Additional ecological information	:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)hepta-1,6-dien-3-one:

Additional ecological information	:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	:	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number or ID number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks	:	Not classified as dangerous in the meaning of transport regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 3 7-Hydroxycitronellal (Number on list 3) Orange, sweet, ext. (Number on list 40, 3) 2-Methoxy-4-propylphenol (Number on list 3) α,α-Dimethylphenethyl butyrate (Number on list 3) 2-Benzylideneheptanal (Number on list 3) Neryl acetate (Number on list 3) 1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)hepta-1,6-dien-3-one (Number on list 3) ethyl acetate (Number on list 40, 3) Linalyl acetate (Number on list 3) linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (Number on list 3) cis-Hex-3-en-1-ol (Number on list 40, 3) benzyl benzoate (Number on list 3) 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide;(HHCB) (Number on list 3) 2-(4-tert-Butylbenzyl)propionaldehyde (Number on list 3) Geranyl acetate (Number on list 3) (R)-p-mentha-1,8-diene; d-limonene (Number on list 40, 3)
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	2-(4-tert-Butylbenzyl)propionaldehyde
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

Water hazard class (Germany)	:	WGK 2 obviously hazardous to water Classification according to AwSV, Annex 1 (5.2)
TA Luft List (Germany)	:	Total dust: Not applicable Inorganic substances in powdered form: Not applicable Inorganic substances in vapour or gaseous form: Not applicable Organic Substances: portion Class 1: 0,21 % Carcinogenic substances: Not applicable Mutagenic: Not applicable Toxic to reproduction: others: < 0,01 %
Volatile organic compounds	:	Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 1,64 %

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

H225	:	Highly flammable liquid and vapour.
H226	:	Flammable liquid and vapour.
H302	:	Harmful if swallowed.
H304	:	May be fatal if swallowed and enters airways.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H335	:	May cause respiratory irritation.
H336	:	May cause drowsiness or dizziness.
H360Fd	:	May damage fertility. Suspected of damaging the unborn child.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
H411	:	Toxic to aquatic life with long lasting effects.
H412	:	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Asp. Tox.	:	Aspiration hazard
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Flam. Liq.	:	Flammable liquids
Repr.	:	Reproductive toxicity
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
STOT SE	:	Specific target organ toxicity - single exposure
91/322/EEC	:	Europe. Commission Directive 91/322/EEC on establishing indicative limit values
DE TRGS 900	:	Germany. TRGS 900 - Occupational exposure limit values.
DFG	:	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).
EU SCOEL	:	EU. Scientific Committee on Occupational Exposure Limit Values (SCOELs), European Commission - SCOEL, as amended
91/322/EEC / STEL	:	Short term exposure limit
91/322/EEC / TWA	:	Time weighted average
DE TRGS 900 / AGW	:	Exposure limit(s):
DFG / MAK	:	Maximum allowable concentration:
EU SCOEL / STEL	:	Short term exposure limit
EU SCOEL / TWA	:	Time weighted average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - Interna- tional Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet;

SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:		**Classification procedure:**
Skin Sens. 1	H317	Calculation method
Aquatic Chronic 3	H412	Calculation method

The data contained in this Safety Data Sheet is accurate to the best knowledge of Candle Supply Pty Ltd, applies to the product as supplied Candle Supply Pty Ltd, and does not relate to use in combination with any other material or in any process. Data and information is furnished without warranty expressed or implied, nor does Candle Supply Pty Ltd, assume responsibility for use or reliance upon this data.

This SDS is current to the date listed above. However, the GHS classifications may change due to hazard communication updates by the overseeing governing body. For the most current SDS information please contact customerservice@candlesupply.com.au